Recombinant Human KCNAB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KCNAB1-1268H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KCNAB1 MS Standard C13 and N15-labeled recombinant protein (NP_751891) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member includes distinct isoforms which are encoded by alternatively spliced transcript variants of this gene. Some of these isoforms are beta subunits, which form heteromultimeric complexes with alpha subunits and modulate the activity of the pore-forming alpha subunits.
Molecular Mass	44.7 kDa
AA Sequence	MQVSIACTEHNLKSRNGEDRLLSKQSSTAPNVVNAARAKFRTVAIIARSLGTFTPQH HISLKESTAKQTGMKYRNLGKSGLRVSCLGLGTWVTFGGQISDEVAERLMTIAYESG

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	VNLFDTAEVYAAGKAEVILGSIIKKKGWRRSSLVITTKLYWGGKAETERGLSRKHIIEG LKGSLQRLQLEYVDVVFANRPDSNTPMEEIVRAMTHVINQGMAMYWGTSRWSAME IMEAYSVARQFNMIPPVCEQAEYHLFQREKVEVQLPELYHKIGVGAMTWSPLACGII SGKYGNGVPESSRASLKCYQWLKERIVSEEGRKQQNKLKDLSPIAERLGCTLPQLA VAWCLRNEGVSSVLLGSSTPEQLIENLGAIQVLPKMTSHVVNEIDNILRNKPYSKKDY RSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	KCNAB1 potassium voltage-gated channel subfamily A member regulatory beta subunit 1 [Homo sapiens (human)]
Official Symbol	KCNAB1
Synonyms	KCNAB1; potassium voltage-gated channel, shaker-related subfamily, beta member 1; voltage-gated potassium channel subunit beta-1; AKR6A3; hKvb3; hKvBeta3; KCNA1B; Kvb1.3; K(+) channel subunit beta-1; potassium channel beta 3 chain; potassium channel beta3 subunit; potassium channel shaker chain beta 1a; potassium voltage-gated channel beta subunit; voltage-gated potassium channel beta-1 subunit; KV-BETA-1;

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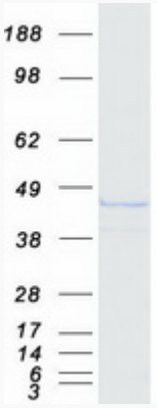
Gene ID	7881
mRNA Refseq	NM_172159
Protein Refseq	NP_751891
MIM	601141
UniProt ID	Q14722
SDS-PAGE	

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